What is claimed is:

1. An apparatus for treating a particle—shaped material, comprising a process chamber for accommodating and treating said material, a base of said process chamber being composed of a series of guide plates which are placed one above the other in different planes and overlap one another, thereby forming slots between said guide plates, via which slots a process air can be directed into said process chamber with an essentially horizontal component motion, wherein there is provided a vertical—adjustment device which interacts with said guide plates, by means of which vertical adjustment device a distance between said guide plates and thus a height of said slots can be varied.

2. The apparatus of claim 1, wherein said vertical-adjustment device is designed in such a way that a vertical distance between said guide plates can be varied from zero up to a maximum distance.

3. The apparatus of claim 1, wherein said vertical adjustment device is designed in such a way that said guide plates can be vibrated back and forth in a direction of a vertical adjustability.

4. The apparatus of claim 1, wherein said vertical adjustment device having at least one adjusting traverse which is connected to each of said guide plates.

5. The apparatus of claim 1, wherein said vertical adjustment device has a vertical-adjustment member arranged centrally in said base.

6. The apparatus of claim 5, wherein said base, as viewed radially from outside to inside, consists of annular guide plates placed one above the other, and said vertical-adjustment device having a central upright vertical-

adjustment member which is connected to a radially inner end of a crosspiece which is pivotably linked at a radially outer end there of.

7. The apparatus of claim 1, wherein said vertical-adjustment device has a vertical adjustment member arranged centrally in said base, said vertical adjustment member being designed as a compressed-air adjusting stud.

8. The apparatus of claim 1, wherein said vertical-adjustment device is arranged below said base.

9. The apparatus of claim 4, wherein said adjusting traverse has a plurality of radially extending crosspieces, selected from the group consisting of three to six crosspieces.

10. The apparatus of claim 1, wherein said base being composed of different groups of series of guide plates placed one above the other, each group interacts with a vertical adjustment device.